

IN THE CLAIMS

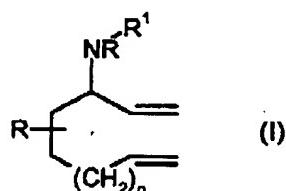
Please amend Claim 56.

1-42. (Cancelled)

43-55. (Cancelled)

56. (Currently Amended) A process for preparing a cyclic compound comprising subjecting a starting material in the presence of a catalyst component to metathesis reaction in the presence of an ionic liquid, and thereby forming the cyclic compound,

wherein the starting material is a α,ω -diene having the formula (I)



wherein

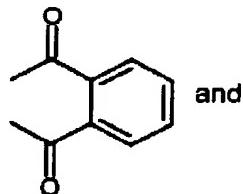
n is 1, 2, 3 or 4,

R is hydrogen or an organic substituent selected from the group consisting of fused aryl groups, unfused aryl groups, alkyl groups, CN groups, and COOR² groups,

R¹ is tert-butyl, P(R)₂, P(R²)₂, COR, SO₂PhR, COOR or CONRR²,

R² is alkyl or phenyl,

or R and R¹ together form



and

wherein the α,ω -diene optionally bears at least one further substituent R in any other position with the exception of the α position,

wherein the catalyst component is a ruthenium, an osmium, or a molybdenum ~~molybdenum~~ homogenous catalyst or a heterogeneous catalyst selected from the group consisting of (i) ruthenium, osmium, or molybdenum

~~transition metal~~ carbenes, (ii) transition metal compounds that form transition metal carbenes under the reaction conditions, and (iii) transition metal salts in combination with an alkylating agent.

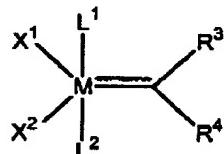
57. (Previously Presented) The process of Claim 56, wherein n is 1 or 2.

58. (Previously Presented) The process of Claim 56, wherein n is 1.

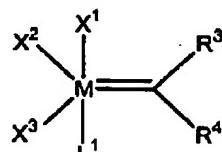
59. (Previously Presented) The process of Claim 56, wherein the α,ω -diene is diallylamine or 3-amino-1,7-octadiene, or 1,7-octadiene, 10-undecenoyl-allylamide, 1,4-bis-oxypropen-2-yl-but-2-ine or buten-4-yl 10-undecenoate.

60. (Previously Presented) The process of Claim 59, wherein the α,ω -diene is in N-carboxymethyl-protected form.

61. (Previously Presented) The process of Claim 56, wherein the catalyst component is a compound of formula (III) or (IV):



(III)



(IV)

wherein M is ruthenium or osmium, and

wherein R³ to R⁷ are radicals selected from the group consisting of hydrogen, C₁-C₂₀-alkyl, C₃-C₈-cycloalkyl, C₂-C₂₀-alkenyl, C₂-C₂₀-alkynyl, C₆-C₁₈-aryl, C₁-C₂₀-carboxylate, C₁-C₂₀-alkoxy, C₂-C₂₀-alkenyloxy, C₂-C₂₀-alkynyoxy, C₆-C₁₈-aryloxy, C₂-C₂₀-alkoxycarbonyl, C₁-C₂₀-alkylthio, C₁-C₂₀-alkylsulfonyl and C₁-C₂₀-alkylsulfinyl, N-aryl; wherein in each case unsubstituted or substituted by C₁-C₈-alkyl, perfluoroalkyl, halogen, C₁-C₅-alkoxy or C₆-C₁₈-aryl; and wherein the radicals R³ to R⁷ may be linked to one another in cyclic compounds,

X¹ to X³ are anionic ligands are selected from the group consisting of F⁻, Cl⁻, Br⁻, CN⁻, SCN⁻, R³O⁻, R³R⁴N⁻, (R³-R⁷)-allyl⁻, (R³-R⁷)-cyclopentadienyl⁻, wherein the radicals R³ to R⁷ are as defined above,

L¹ to L³ are uncharged ligands are selected from the group consisting of CO, CO₂, R³NCO, R³R⁴C=CR⁵R⁶, R³C≡CR⁴, R³R⁴C=NR⁵, R³C≡N, R³OR⁴, R³SR⁴,

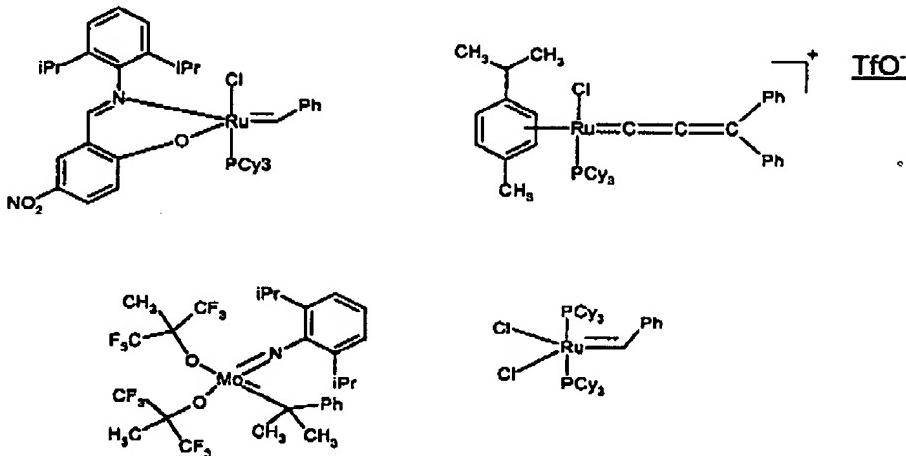
$\text{NR}^3\text{R}^4\text{R}^5$, $\text{PR}^3\text{R}^4\text{R}^5$, $\text{AsR}^3\text{R}^4\text{R}^5$, $\text{SbR}^3\text{R}^4\text{R}^5$, wherein the radicals R^3 to R^5 are as defined above and m is 1 or 2.

62. (Previously Presented) The process of Claim 61, wherein the catalyst component is a compound of the formula (III) and/or (IV), wherein L^1 and L^2 is $\text{PR}^3\text{R}^4\text{R}^5$.

63. (Previously Presented) The process of Claim 62, wherein R^3 , R^4 , and R^5 are selected from the group consisting of aryl and alkyl groups.

64. (Previously Presented) The process of Claim 62, wherein R^3 , R^4 , and R^5 are selected from the group consisting of secondary alkyl radicals and cycloalkyl radicals.

65. (Presently Amended) The process of Claim 56, wherein the catalyst component is selected from one or more of the following compounds:



66. (Previously Presented) The process of Claim 56, wherein the ionic liquid is ammonium -hexafluorophosphate, ammonium tetrafluoroborate, ammonium tosylate, or ammonium hydrogen sulfate and salt mixtures comprising aluminium halides in combination with at least one quaternary ammonium halide and/or at least one quaternary phosphonium halide.

67. (Previously Presented) The process of Claim 56, wherein the ionic liquid is pyridinium hexafluorophosphate, pyridinium tetrafluoroborate, pyridinium hydrogen sulfate, 1-methyl-3-butylimidazolium hexafluorophosphate or combinations of aluminium chloride with 1-methyl-3-butylimidazolium chloride, 1-methyl-3-ethylimidazolium chloride, N-butylpyridinium chloride and tetrabutylphosphonium halide.